

WHAT IS CLAIMED IS:

1 1. A shock absorbing shoe, comprising:

2 an upper member which wraps and protects the instep and ankle;

3 a cushion member which is sutured to the upper member, improves a frictional force between
4 the sole of a foot and the ground, and consists of a forefoot portion and a heel portion each having
5 a recess of a predetermined depth;

6 a buffering unit which is arranged in the respective recesses of the forefoot and heel portions
7 of the cushion member for absorbing shocks while the wearer is walking or running;

8 an air pumping unit which is arranged in the recess of the heel portion to perform an auxiliary
9 buffering action and which supplies air onto the forefoot portion; and

10 a bottom sole which is mounted on the upper part of the cushion member and to which the
11 foot sole of the user is tightly attached.

1 2. The shoe of claim 1, wherein the buffering unit comprises:

2 upper and lower caps which are symmetrical to each other and has a plurality of annular
3 flanges projected, the annular flanges having insert grooves on the inside surfaces facing each other;
4 and

5 coil springs which integrally connect the upper and lower caps with both opposite ends being
6 forcedly inserted into annular flange insert grooves of the upper and lower caps and which have a
7 predetermined elastic force.

1 3. The shoe of claim 1, wherein the air pumping unit comprises:

2 an air pump which is arranged in the recess of the heel portion and compress air by a shock
3 from the upside; and

4 an air supply pipe which is extended from one side of the air pump to penetrate the recess
5 of the forefoot portion and supplies the compressed air from the air pump to the recess of the
6 forefoot portion.

1 4. The shoe of claim 3, wherein a plurality of through holes are formed on the forefoot
2 portion of the bottom sole.

1 5. The shoe of claim 3, wherein the air supply pipe is formed by forming a guide groove on
2 the cushion member to a predetermined depth.

1 6. The shoe of claim 1, wherein a projecting cushion relatively projecting toward the heel
2 of the wearer is formed on the heel portion the cushion member.

1 7. A shock absorbing shoe, comprising:

2 upper and lower caps which are symmetrical to each other and have a plurality of annular
3 flanges projected, the annular flanges having insert grooves on the inside surfaces facing each other;
4 and

5 coil springs which integrally connects the upper and lower caps with both opposite ends
6 being forcedly inserted into annular flange insert grooves of the upper and lower caps and have a
7 predetermined elastic force.

1 8. The shoe of claim 7, wherein the coil springs have a rectangular cross sectional shape.

1 9. The shoe of claim 7, wherein an auxiliary buffering body is additionally sandwiched on
2 a space region between the upper and lower caps so that it can be mounted adjacent to each of the
3 coil springs.

1 10. The shoe of claim 9, wherein the auxiliary buffering body is formed of rubber.

1 11. A shock absorbing shoe, which has a sole attached to the bottom portion of the shoe for
2 protecting the foot sole and forming a friction with the ground, comprising:

3 a cushion member which has an upper of the shoe attached thereto to form the shape of the
4 shoe and a recess of a predetermined shape provided on the bottom surface;

5 a friction member which is attached to the bottom surface of the cushion member for forming
6 a friction with the ground; and

7 a shock absorbing member which is arranged in the recess and has a predetermined recess
8 formed between the cushion member and the friction member and several rectangular cross sectional
9 coil springs elastically mounted between fixed caps.

1 12. The shoe of claim 11, wherein the shock absorbing member is formed by mounting fixed
2 caps on upper and lower parts of the rectangular cross sectional coil springs, passing a wire through
3 the center of the fixed caps at the upper and lower parts, with both ends being fixed to the fixed caps,
4 and locating fixed plates having the same shape as the recess on the upper and lower parts of the
5 fixed caps.

1 13. The shoe of claim 11, wherein the recess to be formed on the bottom surface of the
2 cushion member is formed on the heel portion and a transparent window portion through which the
3 rectangular cross sectional coil springs can be seen is formed on a side face of the recess.

1 14. The shoe of claim 11, wherein the recess to be formed on the cushion member is formed
2 on the heel portion and the forefoot portion.

1 15. The shoe of claim 11, wherein the rectangular cross sectional coil springs provided at
2 the shock absorbing member are firstly compressed when mounted between the fixed caps, and the
3 elastic force applied to the heel portion is larger than the one applied to the forefoot portion.